

ANTIFLEX®-AN is ttv's precision cast acrylic **LUXACRYL®** with one-side ANTI-NEWTON coating.

Applications: windows for any electronic displays, where Newton rings (direct contact between window and display or two surfaces in general) have to be eliminated.

Sheet size: Standard: 1000 x 1000 mm; thicknesses from 0.5 through 3.0 mm, thickness tolerance ± 0.1 mm (for thicknesses up to 3.0 mm). ttv also supplies cut to size or machined to customer's drawings (including silk screen printing and adhesive).

TECHNICAL DATA	TEST METHOD	UNIT	VALUE*
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PHYSICAL

Density	ASTM D-792	g/cm ³	1.19
Pencil Hardness	ASTM D-3363		approx. 2 – 3H
Water Absorption	ASTM D-570	%	0.3

OPTICAL

Transmission	ASTM D-1003	%	approx. 91
Refractive Index	ASTM D-542		1.49

THERMAL

Vicat Softening Temperature	ISO 306	°C	98 – 102
Max. Continuous Temperature		°C	80
Heat Distortion Temperature	ASTM D-648	°C	100
Coeff. of Thermal Expansion	ASTM D-696	1/°C	7×10^{-5}
Coeff. of Thermal Conductivity	DIN 52612	W/mK	0.16

MECHANICAL

Rupture strength (tensile)	ASTM D-638	kg/cm ²	750
Rupture strength (flexural)	ASTM D-790	kg/cm ²	1200
Elongation	ASTM D-638	%	5
E-Module	ISO 527-2/1B/1	MPa	3300
Impact strength	ISO 180/1 A	kJ/m ²	2.0

CHEMICAL RESISTANCE

“+” = no change, “x” = conditionally resistant, “-” = not resistant

- Acetone	- Alcohol (96%)	+ Dilute Alcohol (50%)	- Amine
- Aniline	x Ether	- Aromatic Hydrocarbon	+ Ethylene glycol
+ Benzine	- Benzene	x Bromine Vapors	x Chlorine Vapors
- Chlorinated Hydrocarbon	- Ester	x Fluorine Vapors	x Formaldehyde (10-40%)
+ Glycerine	+ Factory fume	+ Hexane	- Ketones
- Paint thinner	+ Lanolin	+ Bases (10%)	x Bases (20%)
+ Methylamine	+ Mineral Oil	+ Chlorinated Paraffin	+ Petroleum Ether
- Phenole	+ Salt Solutions	+ Acids (20%)	- Carbon Tetrachloride
- Fuel mixture	+ Water	+ Xylene	

* Values provided cannot be guaranteed in your application due to circumstances beyond our control.



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